

SEQUENCE LISTING

<110> Alleman, Arthur
Barbet, Anthony

<120> MSP5 Antigen for the Diagnosis of Infection with Anaplasma
phagocytophilum

<130> UF-387

<160> 4

<170> PatentIn version 3.2

<210> 1

<211> 742

<212> DNA

<213> Anaplasma phagocytophilum

<220>

<221> misc_feature

<222> (29)..(250)

<223> Coding sequence of processed MSP5 polypeptide

<220>

<221> misc_feature

<222> (29)..(610)

<223> 5' and 3' ends of cloned MSP5 insert

<400> 1

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agcgccgata ttggcttctt ttactgatct gataaatcaa gaaggtcagg ttgttagtag	180
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tgagtatcac aaagcctttg atagtcgaat tcagatgctg actggggatg aggaagttat	420
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ccctacttct aagggcgaat tcgaagctta cgtagaacaa aaactcatct cagaagagga	660
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 <212> PRT
 <213> Anaplasma phagocytophilum

<400> 2

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Pro Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val
 35 40 45

Val Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly
 50 55 60

Phe Ser Ser Cys Lys His Ile Cys Pro Ala
 65 70

<210> 3
 <211> 89
 <212> PRT
 <213> Anaplasma phagocytophilum

<400> 3

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Val Phe Leu Gly Tyr Ser Tyr Val Asn Lys Lys Gly Ile Phe Ser Asp
 20 25 30

Met Gly Ala Lys Leu Ser Ser Thr Asp Thr Val Val Glu Gln Ala Pro
 35 40 45

Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val Val
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Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly Phe
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Ser Ser Cys Lys His Ile Cys Pro Ala
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<210> 4
<211> 15
<212> PRT
<213> Anaplasma phagocytophilum

<220>
<221> MISC_FEATURE
<222> (1)..(15)
<223> MSP5 signal peptide

<400> 4

Met Lys Thr Phe Lys Thr Val Ser Asn Leu Leu Leu Leu Val Ala
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